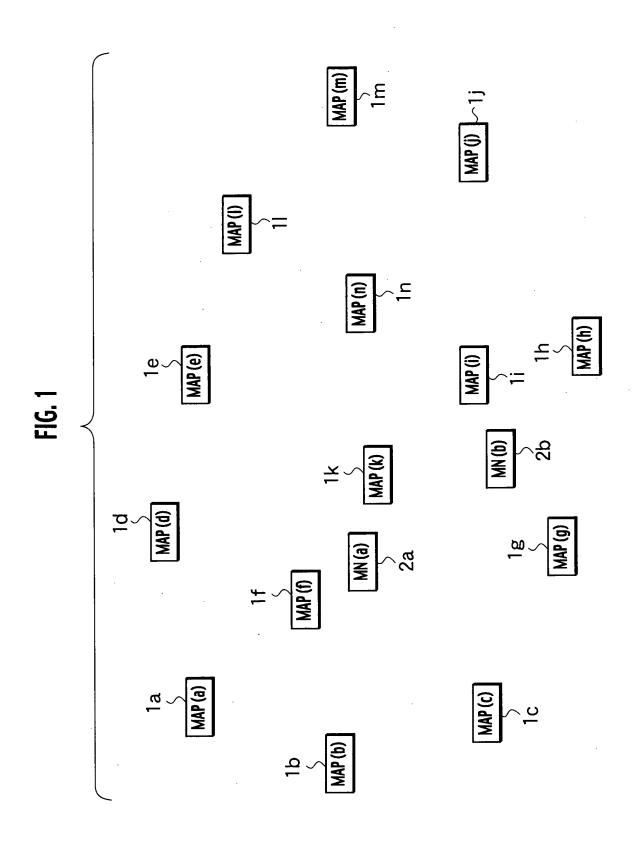
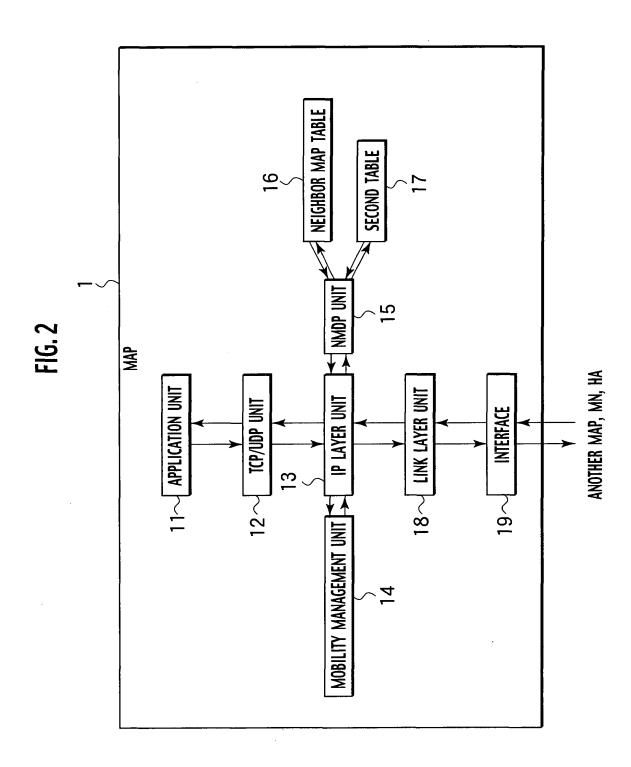
1/29





## FIG. 3

MAP (k)

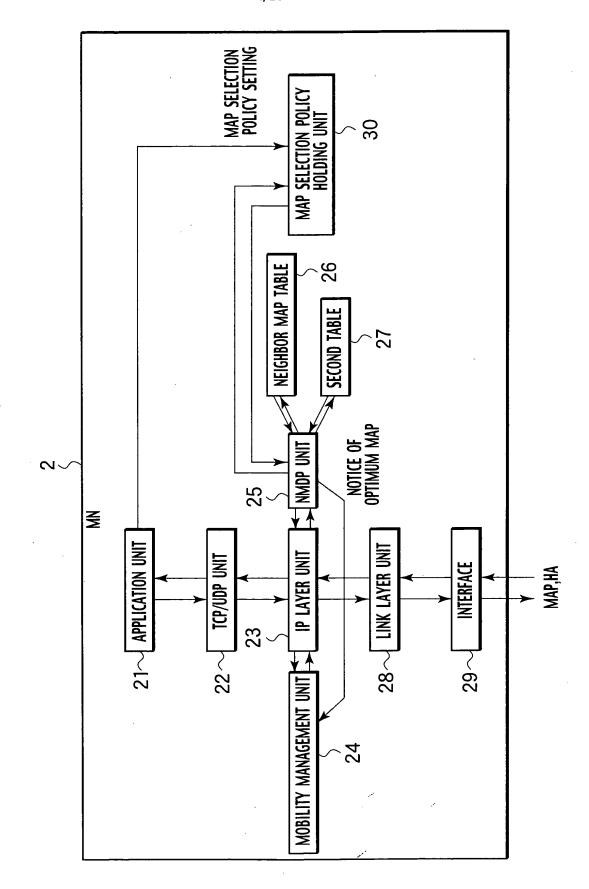
#### NEIGHBOR MAP TABLE 16k

IP DELAY **FORCED PROCESSING** LIFETIME **SEQUENCE SEQUENCE ADDRESS VALUE** REGISTRATION NUMBER 1 **CAPABILITY** (sec.) NUMBER 2 LIFETIME (sec.) (msec.) 10 (MEDIUM) 635 1653 0 0 k 6.5 433 2944 623 f 11 (LOW) 1652 122 O1 (HIGH) 1650 6.8 0 10 (MEDIUM) 7.3 61 1649 0 n OO (HIGHEST) 13.0 122 1650 0 g

## SECOND TABLE 17k

SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	111.5265
SMOOTHING FACTOR $\alpha$	0.5

4/29



[6.4

FIG. 5

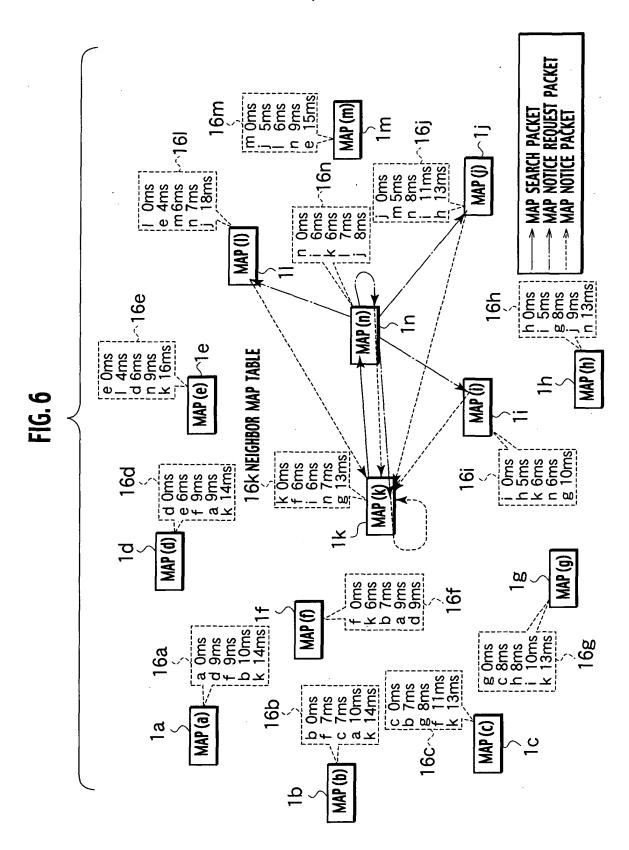
MN(a)

#### NEIGHBOR MAP TABLE 26a

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1
f	2.3	10 (MEDIUM)	22	666
k	3.3	10 (MEDIUM)	22	666
b	4.1	O1 (HIGH)	30	667
a	5.9	OO (HIGHEST)	18	663
d	9.9	11 (LOW)	18	663

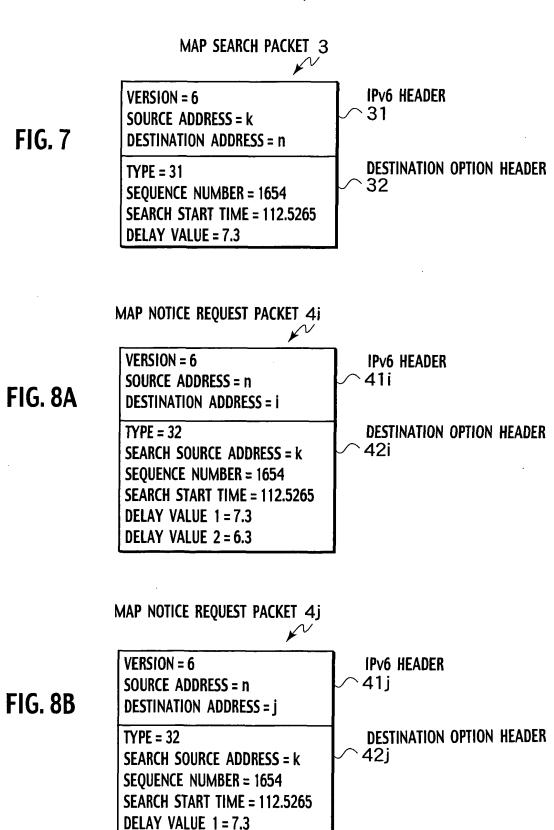
# SECOND TABLE 27a

SEQUENCE NUMBER 3	667
INITIAL LIFETIME (sec.)	30
SEARCH LIFETIME (sec.)	15
TIMER (sec.)	52.0121
SMOOTHING FACTOR $oldsymbol{eta}$ .	0



OBLON, SPIVAK, ET AL DOCKET #: 240067US90 INV: Koji OMAE, et al. SHEET 7\_ OF\_ 29\_

7/29



DELAY VALUE 2 = 8.3

# MAP NOTICE PACKET 5i

FIG. 9A

VERSION = 6
SOURCE ADDRESS = i
DESTINATION ADDRESS = k

**TYPE = 33** 

SEQUENCE NUMBER = 1654
SEARCH START TIME = 112.5265
DELAY VALUE 1 = 7.3
DELAY VALUE 2 = 6.3

**PROCESSING CAPABILITY = 01 (HIGH)** 

IPv6 HEADER `51i

DESTINATION OPTION HEADER 52i

MAP NOTICE PACKET, 5j

FIG. 9B

VERSION = 6
SOURCE ADDRESS = j
DESTINATION ADDRESS = k

TYPE = 33
SEQUENCE NUMBER = 1654
SEARCH START TIME = 112.5265
DELAY VALUE 1 = 7.3
DELAY VALUE 2 = 8.3
PROCESSING CAPABILITY = 01 (HIGH)

IPv6 HEADER 51j

DESTINATION OPTION HEADER 52j

# FIG. 10

MAP (k)

# NEIGHBOR MAP TABLE 16k

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.8	O1 (HIGH)	122	1650	0	_
n	7.2	11 (LOW)	900	1654	0	
g	13.0	oo (HIGHEST)	121	1650	0	-

### SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5465
SMOOTHING FACTOR $\alpha$	0.5

# FIG. 11

MAP (k)

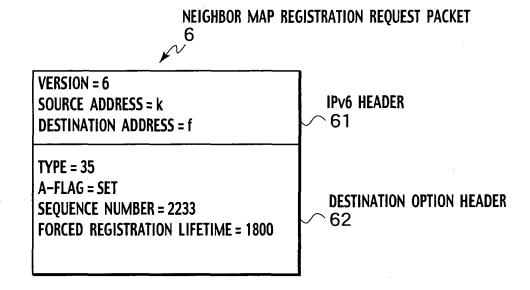
# NEIGHBOR MAP TABLE 16k

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.6	O1 (HIGH)	900	1654	0	
n	7.2	11 (LOW)	900	1654	0	
g	13.0	OO (HIGHEST)	121	1650	0	

# SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5554
SMOOTHING FACTOR $\alpha$	0.5

## FIG. 12



# FIG. 13

MAP (f)

# NEIGHBOR MAP TABLE 16f

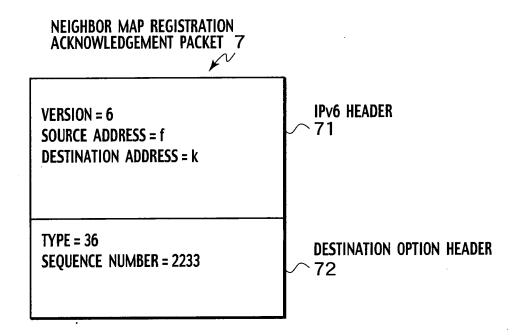
IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
f	0	10 (MEDIUM)	899	22333	0	
k	6.0	10 (MEDIUM)	150	22330	1800	2233
b	7.6	O1 (HIGH)	226	22328	0	
а	9.2	OO (HIGHEST)	900	22333	0	
d	9.4	11 (LOW)	900	22333	0	

#### SECOND TABLE 17f

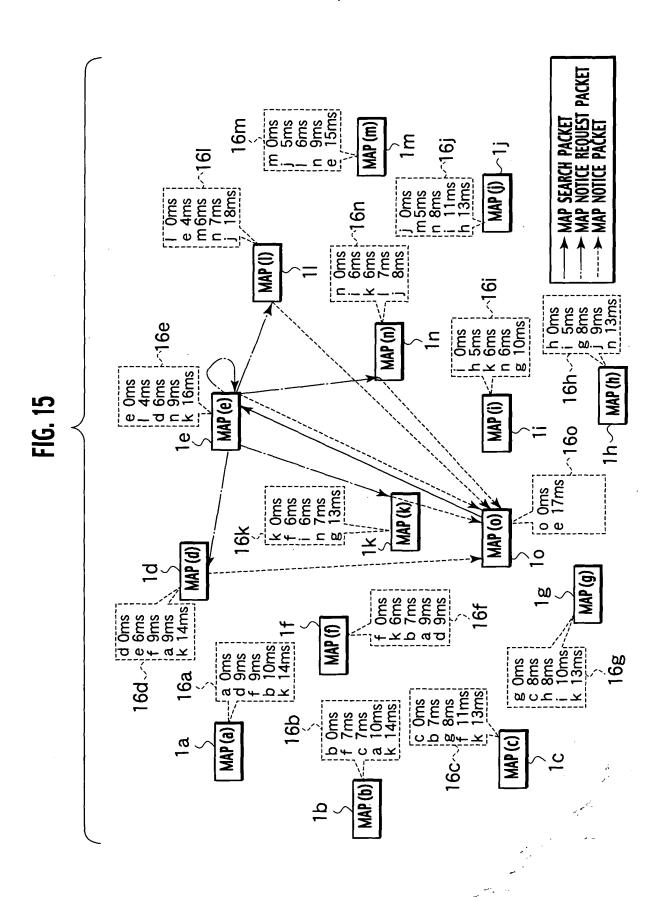
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SEQUENCE NUMBER 3	22333
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	623
FORCED REGISTRATION INITIAL LIFETIME (sec.)	3600
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	3000
PROCESSING CAPABILITY	11 (LOW)
TIMER (sec.)	52.0121
SMOOTHING FACTOR $\alpha$	0.5

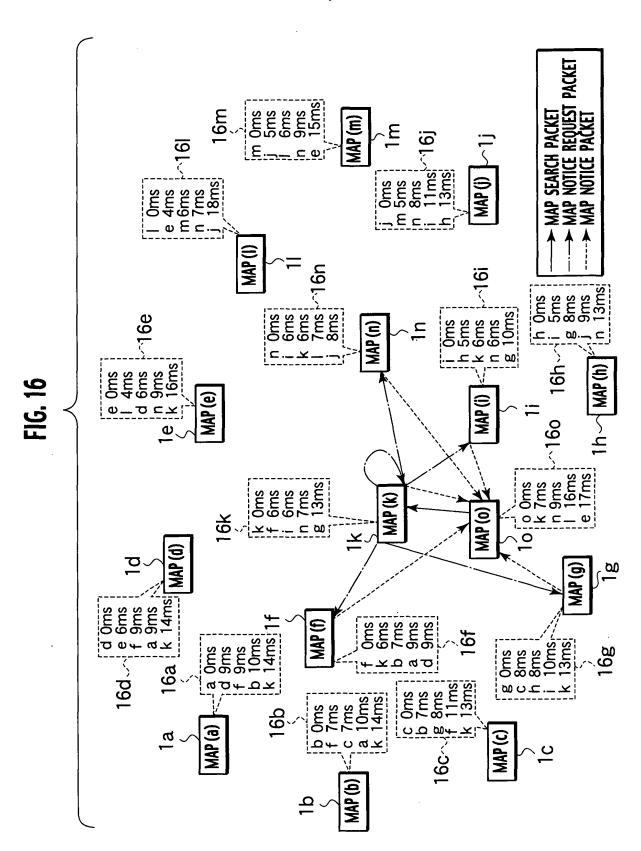
## FIG. 14



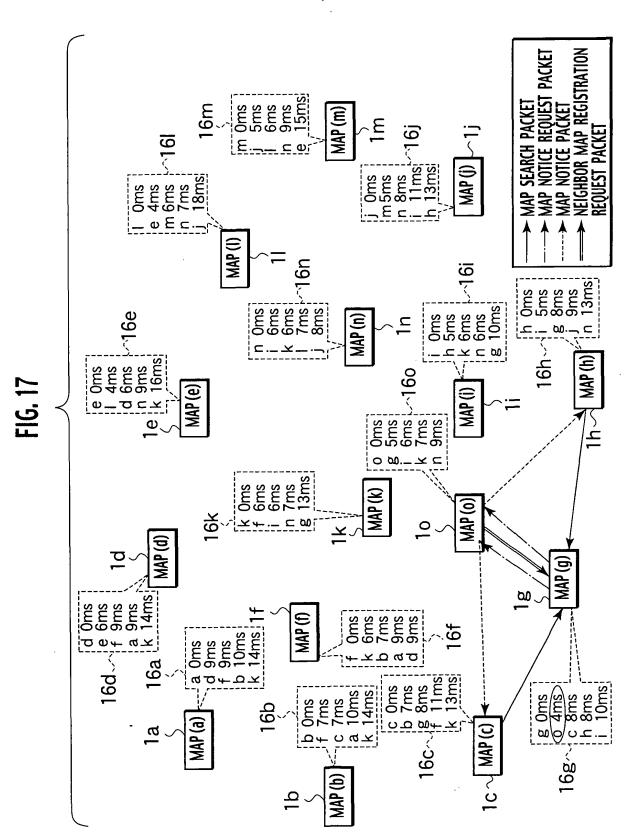
14/29



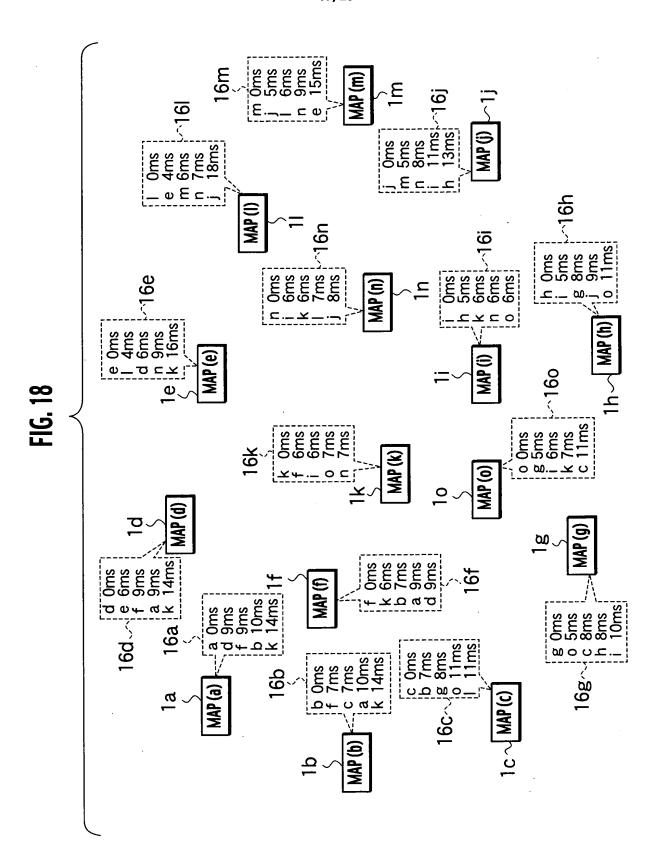
15/29



16/29



17/29





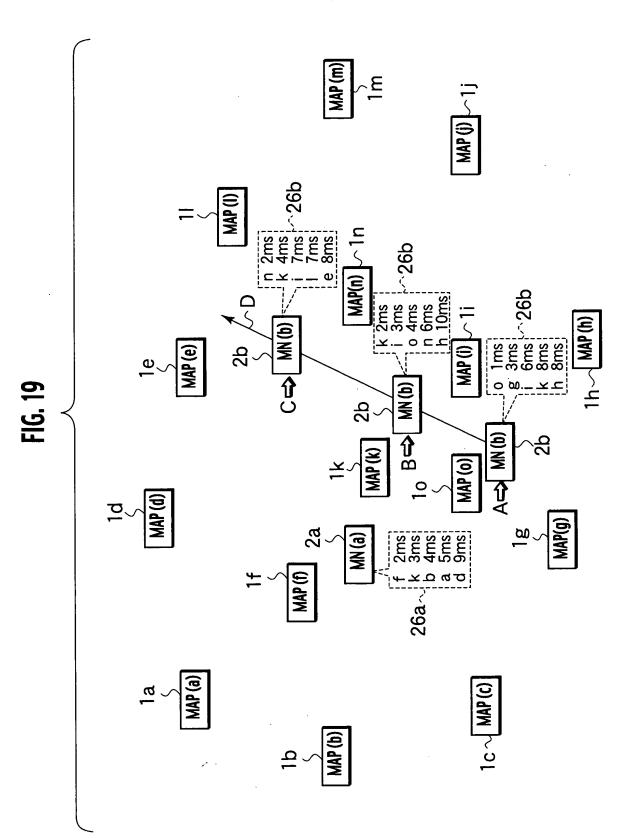


FIG. 20

MAP (k)

#### NEIGHBOR MAP TABLE 116k

**FORCED** SEQUENCE NUMBER 1 NUMBER OF HOPS LIFETIME IP **SEQUENCE REGISTRATION ADDRESS** NUMBER 2 (sec.) LIFETIME (sec.) 635 1653 0 0 k 433 1652 f 623 6 2944 6 122 i 1650 0 7 61 1649 0 n 13 121 1650 0 g

SECOND TABLE 117k

SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
INITIAL HL	(13)

FIG. 21

MN (a)

# NEIGHBOR MAP TABLE 126a

LIFETIME **SEQUENCE NUMBER ADDRESS** OF HOPS NUMBER 1 (sec.) 2 22 666 f 3 22 666 k 4 30 667 b 6 18 663 а 663 d 10 18

#### SECOND TABLE 127a

SEQUENCE NUMBER 3 667
INITIAL LIFETIME (sec.) 30
SEARCH LIFETIME (sec.) 15
INITIAL HL 255

21/29

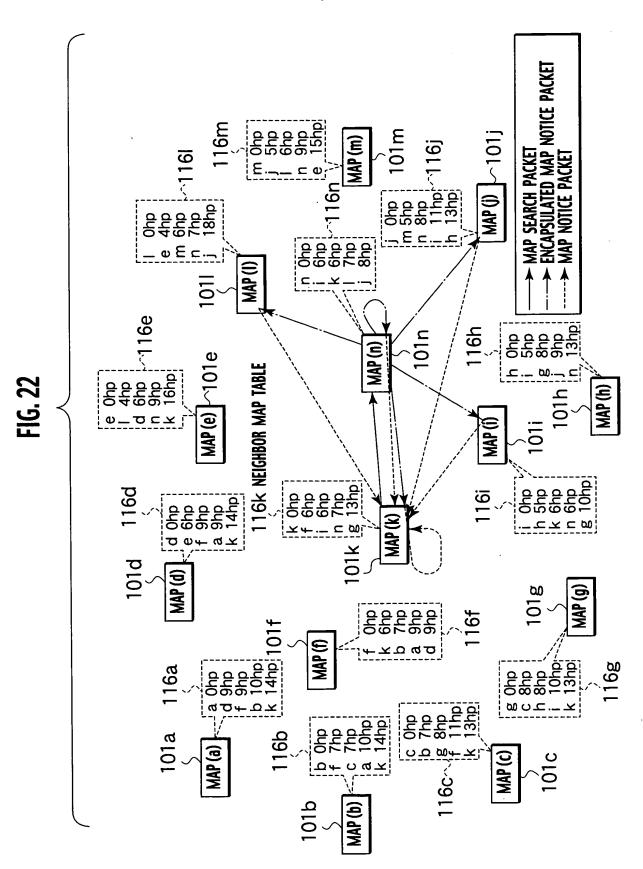


FIG. 23

MAP SEARCH PACKET 103

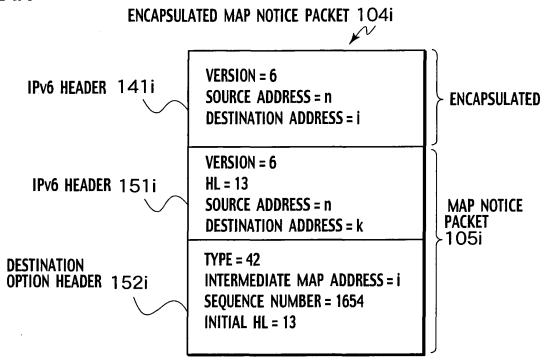
VERSION = 6 SOURCE ADDRESS = k DESTINATION ADDRESS = n

TYPE = 41
SEQUENCE NUMBER = 1654
INITIAL HL =13

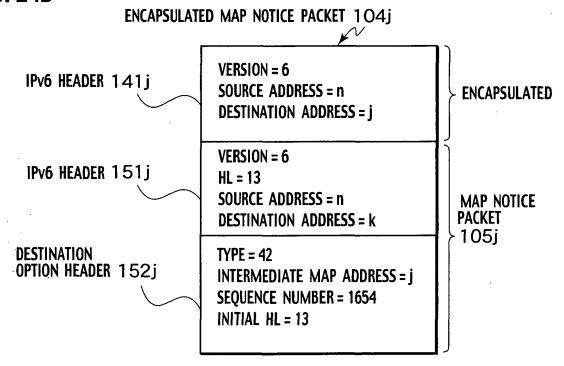
IPv6 HEADER

DESTINATION OPTION HEADER 132

### **FIG. 24A**



### **FIG. 24B**



## FIG. 25

MAP NOTICE PACKET 105i

**VERSION = 6** 

HL = 7

SOURCE ADDRESS = n DESTINATION ADDRESS = k

**TYPE = 42** 

INTERMEDIATE MAP ADDRESS = i

SEQUENCE NUMBER = 1654

INITIAL HL = 13

IPv6 HEADER 151i

DESTINATION OPTION HEADER 152i

*.*2.

## FIG. 26

MAP(k)

#### NEIGHBOR MAP TABLE 116k

FORCED -LIFETIME SEQUENCE NUMBER 1 SEQUENCE IP **NUMBER** REGISTRATI ON NUMBER 2 **ADDRESS** OF HOPS (sec.) LIFETIME (sec.) 1654 k 0 900 0 6 432 1652 2943 623 6 1650 122 0 7 900 1654 0 n 13 121 1650 g

#### SECOND TABLE 117k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
INITIAL HL	13

## FIG. 27

MAP NOTICE PACKET 105j

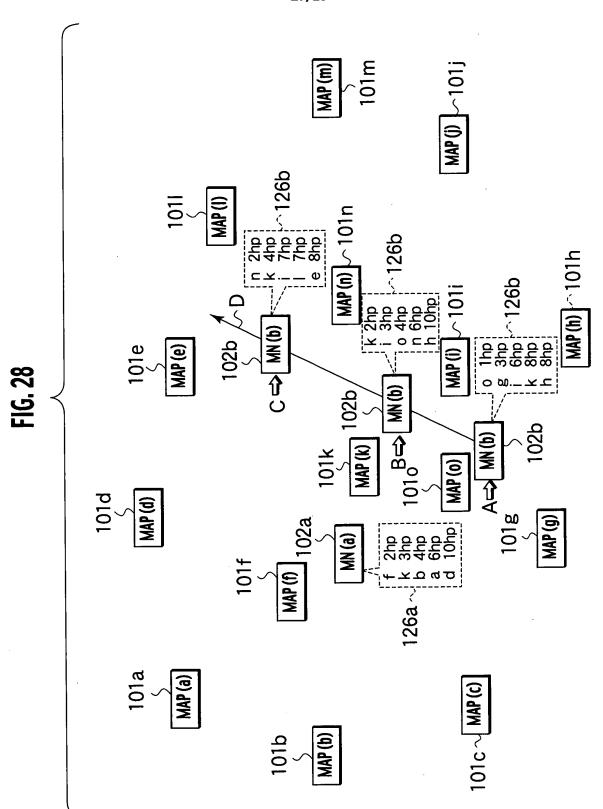
VERSION = 6 HL = 13 SOURCE ADDRESS = n DESTINATION ADDRESS = k

TYPE = 42
INTERMEDIATE MAP ADDRESS = j
SEQUENCE NUMBER = 1654
INITIAL HL = 13

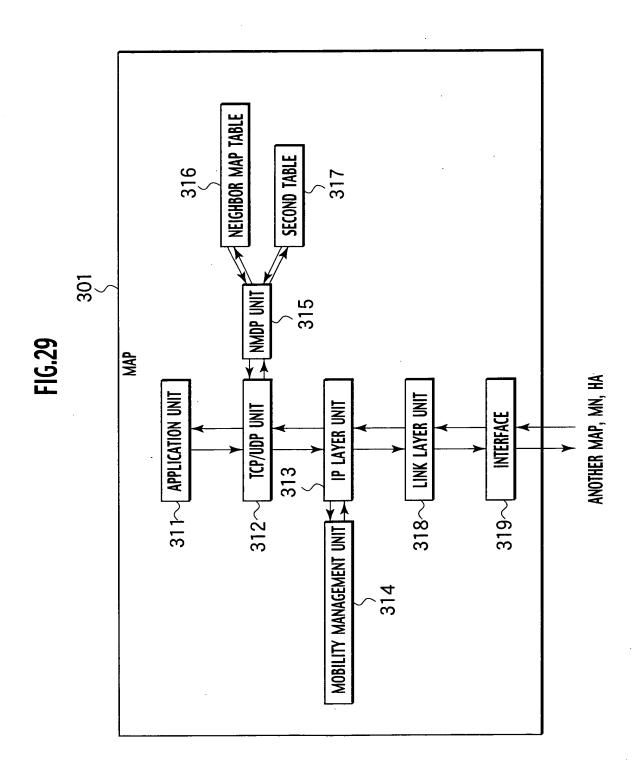
IPv6 HEADER 151j

DESTINATION OPTION HEADER 152j

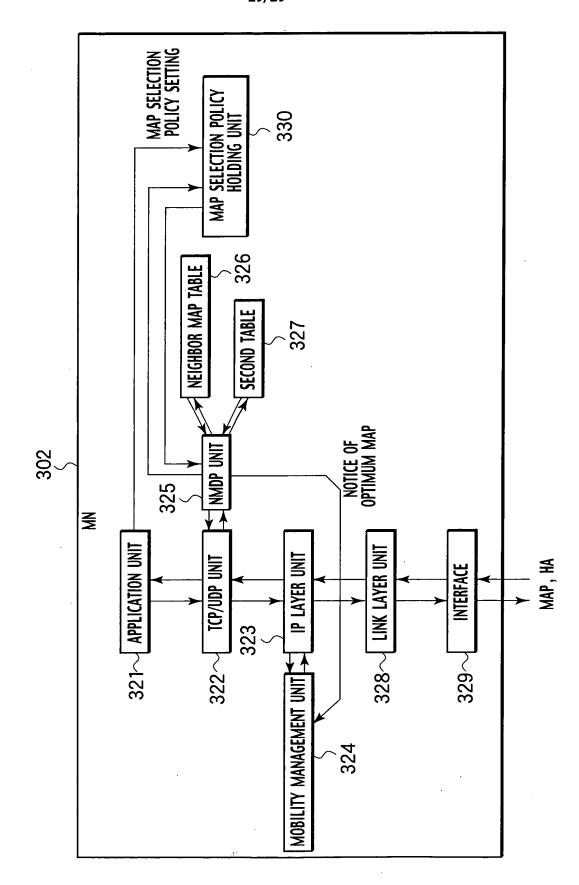




28/29



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